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Approved For Release 2004/05/05 : CIA-RDP78B05174A000600010069-8

NPIC/TSSG/RED-124-70

21 April 1970

MEMORANDUM FOR: Exploitation Research and Development Subcommittee

SUBJECT : 1540 Light Table System Report

1. The following information concerns the cost and performance of the 1540 Light Tables and Mod III Advanced Stereo Rhomboids.

2. 1540 Light Tables.

a. Cost. Consult attached table titled "1540 Light Table Production Cost Estimates," dated 21 April 1970, and also respective price data sheets.

b. Performance. The following statements refer to crucial performance shortcomings of the prototype tables which must be corrected in the production models. There are also numerous "bugs" of lesser significance which must be corrected in the production models but are not cited here.

(1)

[REDACTED]

(a) Microscope carriage counterbalance, motorized tracking system and focusing ring mount have unacceptable performance characteristics.

(b) Illumination uniformity is unsatisfactory (marginal).

(2)

[REDACTED]

(a) Film transport does not track properly with 70mm or 5" film. Film creeps in null position.

(b) Viewing surface temperature too high--114°F vice 95°F.

(c) Air bubbles appear in liquid coolant interfering with viewing.

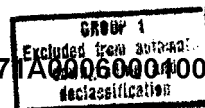
25X1

25X1

Declass Review by NIMA/DOD

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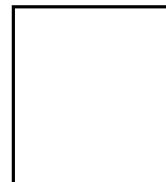
3. ☐ Mod II Advanced Stereo Rhomboids.

a. Approximate Cost.

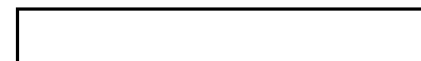
(1) Rhomboids with 1X objective

(2) Pair of 2X objectives

(3) Pair of 3X objectives



b. Performance. The Mod II Rhomboids have essentially the same performance characteristics as the ☐ 15" stereo rhomboid arms, catalog number 53-70-28-02. The primary differences lie in the utility. The Mod II's have self-contained image-rotation and monoscopic and stereoscopic switching without requiring repositioning or refocusing.



NPIC EXRAND Representative

Attachments:

1. 1540 Light Table Production Cost Estimates
2. ☐
3. ☐

Distribution:

- 1 ea. - EXRAND Members
- 1 - TSSG/RED

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